



ELSEVIER

Agriculture, Ecosystems and Environment 51 (1994) 357–358

**Agriculture
Ecosystems &
Environment**

Contents of *Agriculture, Ecosystems and Environment*, Volume 51

VOL. 51 NOS. 1–2

NOVEMBER 1994

Special Issue: Arable Farming Systems

Preface.....	ix
An appraisal of the Dutch Programme on Soil Ecology of Arable Farming Systems (1985–1992)	
L. Brussaard (Haren, Netherlands)	1
The Dutch Programme on Soil Ecology of Arable Farming Systems: Farm management monitoring programme and general results	
G. Lebbink, H.G. Van Faassen, C. Van Ouwerkerk and L. Brussaard (Haren, Netherlands)	7
Differences in soil structure of silt loam Typic Fluvaquents under various agricultural management practices	
O.H. Boersma and M.J. Kooistra (Wageningen, Netherlands)	21
Macroscopic soil physical processes considered within an agronomical and a soil biological context	
J.A. De Vos, P.A.C. Raats (Haren, Netherlands) and E.C. Vos (Wageningen, Netherlands)	43
Earthworm populations and stability of soil structure in a silt loam soil of a recently reclaimed polder in the Netherlands	
J.C.Y. Marinissen (Wageningen, Netherlands)	75
Root and root–soil contact of winter wheat in relation to soil macroporosity	
D. Schoonderbeek and J.F.Th. Schoute (Wageningen, Netherlands)	89
Production and decay of structural root material of winter wheat and sugar beet in conventional and integrated cropping systems	
M. Van Noordwijk, G. Brouwer, H. Koning, F.W. Meijboom (Haren, Netherlands) and W. Grzebisz (Poznan, Poland)	99
Rhizodeposition and turnover of root-derived organic material in barley and wheat under conventional and integrated management	
J. Swinnen (Wageningen, Netherlands)	115
Dynamics of microorganisms, microbivores and nitrogen mineralisation in winter wheat fields under conventional and integrated management	
J. Bloem, G. Lebbink, K.B. Zwart, L.A. Bouwman (Haren, Netherlands), S.L.G.E. Burgers (Wageningen, Netherlands), J.A. De Vos and P.C. De Ruiter (Haren, Netherlands)	129
The ecology of bacterivorous protozoans and nematodes in arable soil	
L.A. Bouwman and K.B. Zwart (Haren, Netherlands)	145
Microarthropod biomass-C dynamics in the belowground food webs of two arable farming systems	
M.J. Vreeken-Buijs, M. Geurs, P.C. De Ruiter and L. Brussaard (Haren, Netherlands)	161
Soil meso- and macrofauna in two agricultural systems: factors affecting population dynamics and evaluation of their role in carbon and nitrogen dynamics	
W.A.M. Didden, J.C.Y. Marinissen (Wageningen, Netherlands), M.J. Vreeken-Buijs (Haren, Netherlands), S.L.G.E. Burgers, R. De Fluiter (Wageningen, Netherlands), M. Geurs (Haren, Netherlands) and L. Brussaard (Wageningen, Netherlands)	171
Population dynamics in the belowground food webs in two different agricultural systems	
K.B. Zwart (Haren, Netherlands), S.L.G.E. Burgers (Wageningen, Netherlands), J. Bloem, L.A. Bouwman, L. Brussaard, G. Lebbink (Haren, Netherlands), W.A.M. Didden, J.C.Y. Marinissen (Wageningen, Netherlands), M.J. Vreeken-Buijs and P.C. De Ruiter (Haren, Netherlands)	187
Simulation of dynamics in nitrogen mineralisation in the belowground food webs of two arable farming systems	
P.C. De Ruiter, J. Bloem, L.A. Bouwman (Haren, Netherlands), W.A.M. Didden (Wageningen, Netherlands), G.H.J. Hoenderboom, G. Lebbink (Haren, Netherlands), J.C.Y. Marinissen (Wageningen, Netherlands), J.A. De	

Vos, M.J. Vreeken-Buijs, K.B. Zwart and L. Brussaard (Haren, Netherlands)	199
Organic matter and nitrogen dynamics in conventional versus integrated arable farming	
H.G. Van Faassen and G. Lebbink (Haren, Netherlands)	209
The effect of soil structure differences in a silt loam soil under various farm management systems on soil physical properties and simulated land qualities	
E.C. Vos and M.J. Kooistra (Wageningen, Netherlands)	227
Impact of agricultural practices on soil food web structure: Theory and application	
J.C. Moore (Greeley, CO, USA)	239
Carbon and nitrogen in arable soils as affected by supply of N fertilizers and organic manures	
J. Persson and H. Kirchmann (Uppsala, Sweden)	249
A conceptual framework to link carbon and nitrogen cycling to soil structure formation	
N.G. Juma (Edmonton, Alta., Canada)	257

Contents of <i>Applied Soil Ecology</i>, Vol. 1 No. 2	269
--	-----

VOL. 51 NO. 3**DECEMBER 1994**

Agronomic assessment of 'beushening' in rainfed lowland rice cultivation in Bihar, India	
R.K. Singh (Bihar, India), V.P. Singh (Manila, Philippines) and C.V. Singh (Bihar, India)	271
A study of competitive effects between a <i>Eucalyptus camaldulensis</i> shelterbelt and an adjacent millet (<i>Pennisetum typhoides</i>) crop	
L.O.Z. Onyewotu (Kano, Nigeria), M.A. Ogirigi (Zaria, Nigeria) and C.J. Stigter (Wageningen, Netherlands)	281
The effect of vesicular-arbuscular mycorrhizal exposure period on their colonization of and spore production in tomato seedlings (<i>Lycopersicon esculentum</i> Mill.), and on host biomass	
T.T. Edathil, S. Manian and K. Udaiyan (Tamil Nadu, India)	287
Contrasting growth responses of herbaceous species to acidic fogs	
C.P. Edge, S.A. Bell and T.W. Ashenden (Bangor, UK)	293
Energy-flow and ecological sustainability in Danish agriculture	
H. Schroll (Roskilde, Denmark)	301
An insect, agronomic and sociological survey of groundnut fields in southern Africa	
J.A. Wightman and A.S. Wightman (Andhra Pradesh, India)	311
Fungi causing damping-off and root-rot on sugar-beet and their biological control with <i>Trichoderma harzianum</i>	
K.A. Abada (Giza, Egypt)	333
Atmospheric CO ₂ and temperature effects on development and growth of rice	
P.A. Manalo, K.T. Ingram, R.R. Pamplona and A.O. Egeh (Manila, Philippines)	339

Book reviews

Crop protection and sustainable agriculture	349
Pesticide drift	351
Sustainable food production	352

Author Index	355
---------------------------	-----

Contents of <i>Agriculture, Ecosystems and Environment</i>, Volume 51	357
--	-----

Announcement from the Publisher	359
--	-----

Contents of <i>Applied Soil Ecology</i>, Vol. 1 No. 2	360
--	-----

